

US Patent Application No.: 10/043,947
Amendment dated October 17, 2005
Reply to Office Action of April 19, 2005

612-07-C1P

Amendments to the claims:

The following listing of the claims replaces all previous listing and versions of the claims in this application.

Listing of the Claims

1. (currently amended) A vaso-occlusive device comprising a filamentous structure formed into a minimum energy state secondary configuration comprising a plurality of interconnected, substantially closed loops of progressively decreasing diameter from a largest loop to a first smallest loop, wherein the device further comprises a second smallest loop immediately adjacent the largest loop, each of the loops defining a discrete axis, whereby the device, in its minimum energy state configuration, defines multiple axes.

2. (previously presented) The device of Claim 1, wherein each of the loops defines a plane and an axis that is substantially perpendicular to the plane.

3. (original) The device of Claim 1, wherein the multiple axes are substantially parallel.

Claim 4-8: (canceled)

9. (previously presented) The device of Claim 1, wherein the closed loops are arranged tangentially to each other.

Claims 10-13: (canceled)

14. (original) The device of Claim 1, wherein the device is dimensioned for installation in a vascular site having a predetermined maximum dimension, and wherein the device has at least one dimension, in its secondary configuration, that is at least 25% greater than the maximum dimension of the vascular site.

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15. (previously presented) The device of Claim 1, wherein the device is dimensioned for installation in a vascular site having a predetermined maximum diameter, and wherein the device, in its secondary configuration, has at least one loop having a diameter that is approximately equal to the maximum diameter of the vascular site.

16. (original) The device of Claim 14, wherein the device has a length, in its secondary configuration, that is at least twice the maximum dimension of the vascular site.

17. (original) The device of Claim 1, wherein the filamentous structure is selected from the group consisting of a microcoil, a wire, a slotted wire, a spiral cut wire, a tube, a slotted tube, a spiral cut tube, a polymer filament, a polymer/metal composite filament, and a micro-chain.

Claims 18-19: (canceled)

20. (currently amended) A vaso-occlusive device comprising a filamentous element formed into a minimum energy state secondary configuration comprising a plurality of interconnected, substantially closed loops of progressively decreasing diameter from a largest loop to a first smallest loop, and wherein the device further comprises a second smallest loop immediately adjacent the largest loop, each of the loops defining a plane and a discrete axis that is substantially perpendicular to the plane.

21. (original) The device of Claim 20, wherein the axes are substantially parallel.

Claim 22: (canceled)

23. (original) The device of Claim 20, wherein the closed loops are arranged tangentially to each other.

Claims 24-27: (canceled)

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28. (original) The device of Claim 20, wherein the device is dimensioned for installation in a vascular site having a predetermined maximum dimension, and wherein the device has at least one dimension, in its secondary configuration, that is at least 25% greater than the maximum dimension of the vascular site.

29. (original) The device of Claim 20, wherein the device is dimensioned for installation in a vascular site having a predetermined maximum diameter, and wherein the device, in its secondary configuration, has at least one curved segment having a diameter that is approximately equal to the maximum diameter of the vascular site.

30. (original) The device of Claim 28, wherein the device has a length, in its secondary configuration, that is at least twice the maximum dimension of the vascular site.

31. (original) The device of Claim 20, wherein the filamentous element is selected from the group consisting of a microcoil, a wire, a slotted wire, a spiral cut wire, a tube, a slotted tube, a spiral cut tube, a polymer filament, a polymer/metal composite filament, and a micro-chain.

Claims 32-45: (canceled)